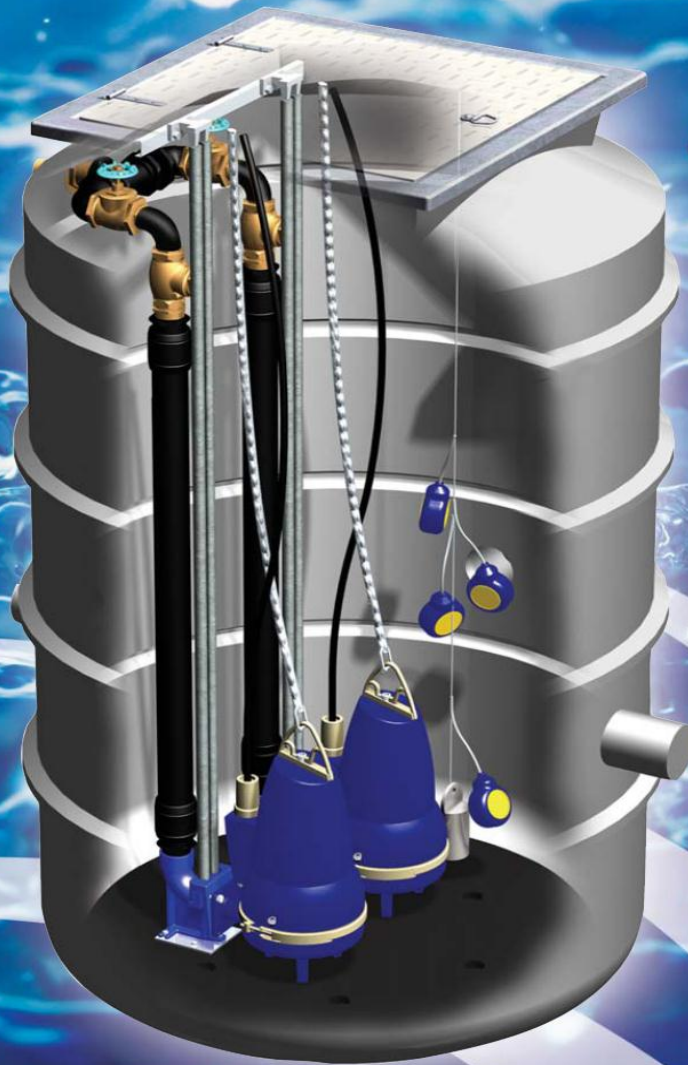


*Project
Waste Water*

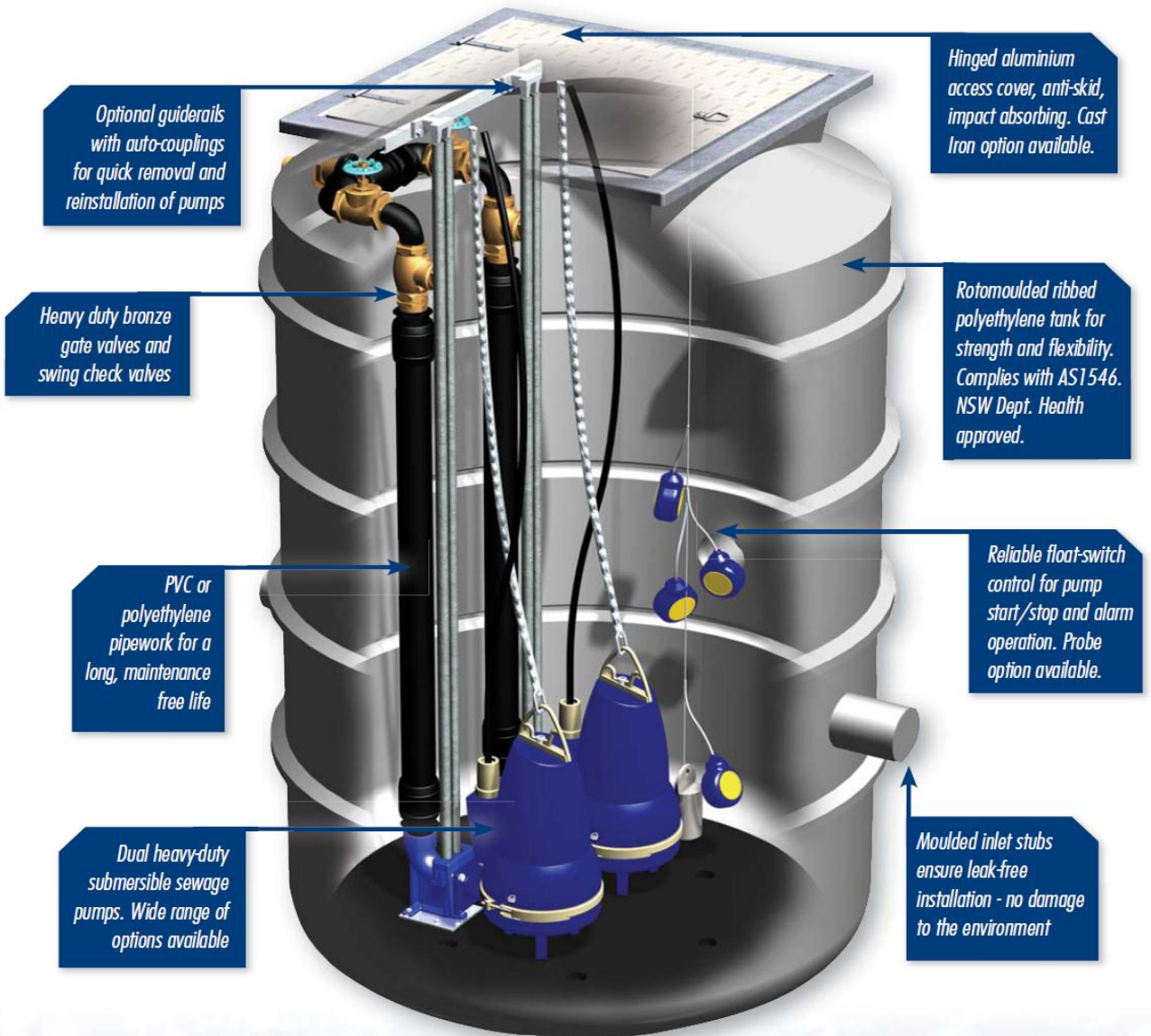
zenox
pumps ™

Polyethylene Packaged Pump Stations



Packaged Pump Solutions

The **ZENOX Polyethylene Packaged Pump Station** is the quick and reliable solution for any situation where sewage or storm water needs to be pumped to a mains connection. Designed to reduce site work and installation time, each pump station is supplied as a complete, factory assembled package, with pumps, pipework and controls selected to meet your site requirements. Site wiring of pumps and controls is required.





DRAINAGE PUMPS

ZENOX DRAINAGE PUMPS

- all metal construction, with stainless steel handle, strainer and motor casing on models up to 0.75kW
- double mechanical seal, plus lip-seal running in oil bath, for longer life.
- integral float switch for automatic operation in pumps up to 2.2kW. Larger pumps have separate controller.
- many selections available

EFFLUENT AND DOMESTIC SEWAGE PUMPS

ZENOX EFFLUENT PUMPS

- ZSC-Series cutter pumps and grinders with tungsten blade on a hardened impeller.
- all metal construction, with stainless steel handle and motor casing.
- double mechanical seal, plus lip-seal running in oil bath, for longer life.
- integral float switch for automatic operation in pumps up to 0.75kW. Larger pumps have separate controller.



HEAVY DUTY SEWAGE GRINDER PUMPS

ZENOX GRUNDFOS SEG SERIES GRINDER PUMPS

- robust construction
- efficient grinder system
- simple to service
- cartridge-mounted double mechanical seal
- flows up to 5 litres per second
- heads up to 45 metres



HIGH FLOWS? HIGH HEADS? CORROSION RESISTANCE?

Many alternative pumps are available for special requirements - just contact ZENOX to discuss a selection for you.

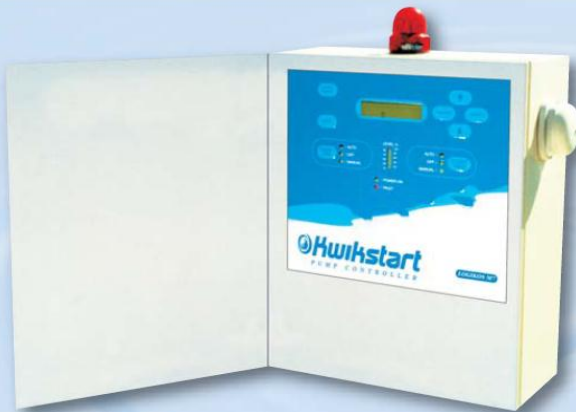
POLYETHYLENE TANKS

ZENOX Polyethylene tanks are manufactured from roto-moulded polyethylene under strict Quality Management Systems to meet AS1546 Part 2. Manufacturing and testing processes are audited regularly to guarantee full compliance. The well design provides maximum resilience for transport, installation and long-life service.

Model	Nominal Depth	Internal Diameter	Volume
ZPE-650	1000mm	1000mm	650L
ZPE-1200	1600mm	1000mm	1125L
ZPE-1600	2200mm	1000mm	1600L
ZPE-3000	2300mm	1600mm	3000L



CUSTOM DESIGNED



ZENOX offer a wide range of controls for pump stations, ranging from simple integrated float switch operation to dual-alternating and even triplex systems.

Various levels of protection and status indication are available. Simply call our sales staff to discuss your requirements.

SELECTION CHECKLIST

Use this checklist to ensure all aspects of the pump station are considered.

1. SELECT PUMP STYLE:

- Drainage pumps - for stormwater, subsoil drainage.
- Domestic sewage - with cutter system for sewage from private dwellings, and effluent from septic tanks.
- Heavy duty sewage - with grinder system for sewage from apartments, commercial/public toilets.

2. SELECT PUMP MOUNTING ARRANGEMENT:

- Freestanding pumps are cheaper but removal for maintenance is more difficult than guiderail mounted.
- Guiderail mounted pumps are quick and easy to remove for maintenance, however not all pumps are available with guiderails.

3. CHECK AVAILABLE POWER:

- Single phase – 240V
- Three phase – 415V

4. CHECK PUMP DUTY:

- Calculate Flowrate
- Calculate Total Head including:
 - a) Vertical rise/static head of pipeline
 - b) Friction in pipework and fittings.

5. SELECT PUMPWELL SIZE:

Factors governing this include:

- a) Invert level of incoming sewer, or drain
- b) Any specified storage capacity required, e.g in case of pump failure
- c) Number of pumps
- d) Dimensions of pumps selected

6. SELECT COVER TYPE:

- Aluminium chequerplate cover for installation in landscaped areas - pedestrian loading only.
- Class B cast-iron gas-tight cover for pedestrian loading.
- Class D cast-iron gas-tight cover for vehicular loading.
- Galvanised steel grating, light duty for pedestrian loading.
- Galvanised steel grating, heavy duty for vehicular loading.

Note: For pumpwells installed in areas subject to vehicular loading, the structural integrity of the surrounding concrete slab and pumpwell backfill must be checked by a qualified engineer.

7. SELECT CONTROLS:

There are endless variations available. Major considerations include:

- Three phase or single phase power.
- Single or dual pumps.
- Alarm functions required: – high level alarm
– motor fault
- Alarm indication required: – local/remote
– audible/visual
– BMS outputs
– autodialler system

In selecting alarm functions and indication, consider the location and accessibility of the control panel - i.e. who will see/hear it, and whether it reflects how serious the consequences of pump failure are.

Project Waste Water

Oil/Water Separators
Modular Grease Traps
Hot Water Circulation Systems
Water Supply Pressure System Packages
Domestic Sewage Pumping Systems
Civil/Municipal Sewage & Stormwater Systems
Trade Waste Solutions
Rainwater Harvesting

ZENOX reserves the right to change product specifications. We have endeavoured to ensure this catalogue information is correct at the time of printing. The reproduction of product colours and images is as representative as photographic and printing processes permit.

